

2018-2019

Technical Skills Assessment

Small Engine Repair/Power Sports

Results by Standard

Legend (%)		
0-50%	51-75%	76-100%

Assessment: Idaho Small Engine Repair/Power Sports	% Correct 17-18	% Correct 18-19
Number tested: 23		
1) CONTENT STANDARD 1.0: BASIC SAFETY	88.49%	89.58%
1) Performance Standard 1.1: Workplace Safety	88.49%	88.19%
1.1.1. Describe general shop safety rules and procedures.	90.48%	88.19%
1.1.2. Utilize safe procedures for handling of tools and equipment.	84.13%	80.56%
1.1.6. Identify the location and use of eye wash stations.	78.57%	70.83%
1.1.8. Comply with the required use of safety glasses, ear protection, gloves and shoes during lab/shop activities.	95.24%	100.00%
1.1.10. Secure hair and jewelry for lab/shop activities.	92.86%	97.92%
2) CONTENT STANDARD 2.0: TOOLS	72.62%	76.56%
1) Performance Standard 2.1: Basic Tools	72.62%	76.56%
2.1.1 Identify basic tools.	68.25%	70.83%
2.1.2 Identify basic tool usage.	76.19%	75.00%
2.1.3 Demonstrate common tools knowledge.	73.81%	87.50%
3) CONTENT STANDARD 3.0: FASTENERS	70.24%	80.21%
1) Performance Standard 3.1: Proper use of fasteners	70.24%	80.21%
3.1.7. Demonstrate proper torque methods.	70.24%	80.21%
4) CONTENT STANDARD 4.0: MEASUREMENT	14.29%	58.33%
1) Performance Standard 4.1: Precision Measuring Instruments	14.29%	58.33%
4.1.5. Demonstrate precision measuring.	14.29%	58.33%
5) CONTENT STANDARD 5.0: BASIC ELECTRICAL	53.97%	58.33%
1) Performance Standard 5.1: Basic Electrical Theory and System	53.97%	58.33%
5.1.3. Understand basic electrical theory.	41.27%	47.22%
5.1.5. Demonstrate proper use of a multimeter.	66.67%	69.44%
6) CONTENT STANDARD 6.0: ENGINE DESIGN AND THEORY	61.53%	68.03%
1) Performance Standard 6.1: Basic Engine Principles and Design	73.81%	81.25%
6.1.3. Explain theory of operation.	80.95%	72.92%

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6.1.4. Identify engine components and their function.	66.67%	89.58%
2) Performance Standard 6.2: Operation of a 2 stroke Engine	58.93%	57.81%
6.2.2. Define 2 stroke engine operations.	40.48%	33.33%
6.2.4. Demonstrate knowledge of 2 stroke engine operation.	77.78%	75.00%
6.2.5. Diagnose, troubleshoot, and repair a 2 stroke engine.	52.38%	56.94%
3) Performance Standard 6.3: Operation of a 4 stroke Engine	64.97%	75.89%
6.3.1. Define 4 stroke engine terms.	92.86%	97.92%
6.3.2. Define 4 stroke engine operations.	60.32%	68.06%
6.3.3. Identify 4 stroke engine components.	55.56%	76.39%
6.3.4. Demonstrate knowledge of 4 stroke engine operation.	49.21%	62.50%
6.3.5. Diagnose, troubleshoot, and repair a 4 stroke engine	76.19%	81.94%
4) Performance Standard 6.4: Overhaul of a 4 stroke Engine	51.08%	61.36%
6.4.4. Disassemble and evaluate a 4 stroke engine.	76.19%	76.39%
6.4.5. Inspect internal components.	39.68%	54.17%
6.4.6. Service, replace or repair damaged internal components.	47.62%	62.50%
6.4.7. Reassemble a 4 stroke engine.	39.68%	52.78%
5) Performance Standard 6.5: Overhaul a 2 stroke Engine	58.10%	60.00%
6.5.1. Diagnose various engine problems.	61.90%	66.67%
6.5.3. Perform and evaluate failure analysis.	52.38%	50.00%
7) Performance Standard 6.7: Fuel Systems	64.29%	66.67%
6.7.1. Define types of fuel systems.	57.14%	56.25%
6.7.3. Identify fuel system components and their functions.	85.71%	83.33%
6.7.5. Service fuel systems components.	66.67%	69.44%
6.7.6. Diagnose, troubleshoot and repair fuel system malfunctions.	52.38%	59.72%
8) Performance Standard 6.8: Governor Systems	60.32%	73.61%
6.8.1. Identify different types of governor systems and their components.	57.14%	70.83%
6.8.2. Identify governor theory, operation, and adjustments.	71.43%	75.00%
6.8.3. Diagnose, troubleshoot and repair governor malfunctions	52.38%	75.00%
9) Performance Standard 6.9: Ignition Systems	68.57%	75.83%
6.9.2. Identify components and functions of a basic ignition system.	69.84%	69.44%
6.9.3. Diagnose, troubleshoot, and repair ignition system malfunctions.	66.67%	85.42%
10) Performance Standard 6.10: Charging Systems	80.95%	79.17%
6.10.2. Identify components and functions of a basic charging system.	80.95%	79.17%

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11) Performance Standard 6.11: Starting Systems	40.48%	52.08%
6.11.3. Diagnose, troubleshoot, and repair starting system malfunctions.	40.48%	52.08%
7) CONTENT STANDARD 7.0: MAINTENANCE	85.71%	93.06%
1) Performance Standard 7.1: Basic Maintenance	85.71%	93.06%
7.1.2. Research owner's manuals, service schedules, and manufacturer's data to perform proper periodic maintenance.	85.71%	93.06%
8) CONTENT STANDARD 8.0: PARTS AND SERVICE MANAGEMENT	85.71%	87.50%
1) Performance Standard 8.1: Parts and Service Operation	85.71%	87.50%
8.1.2. Identify how to look up parts.	85.71%	87.50%